

MAXWELL JONES

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EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Bachelor of Science in Artificial Intelligence
Additional Major in Mathematics

Expected Graduation: May 2023
GPA: 4.0/4.0

Thomas Jefferson High School for Science and Technology, Alexandria, VA
High School Diploma

2015-2019
GPA: 4.1/5.0

EXPERIENCE

SWE/ML Intern | *Facebook*

Summer 2021

- Developed a data perturbation training/evaluating/testing pipeline for the Probability: Uncertainty team.
- Designed and tested probabilistic pytorch models to analyze out of distribution data recognition.
- Specifically focused on MNIST and FashionMNIST datasets, comparing different model architectures

Data Science Intern | *Fiat Chrysler Automobiles*

Summer 2020

- Optimized the HR absentee prediction model in Python resulting in a 2% increase in accuracy.
- Improved neural network performance by cross referencing crew attendance across plants.
- Queried data from PostgreSQL database and used Pandas dataframe library to store query results.

(Head) Teaching Assistant | *Multiple Courses*

Fall 2020, Spring 2021, Fall 2021

- 15-251 Theoretical Ideas in Computer Science, Lead TA 15-151 Discrete Math.
- Design/Lead staff meetings, coordinate TA-Professor interactions, delegate TA responsibilities for Discrete math.
- Teach 20-student recitation twice per week, host office hours, and help write HW/Exams/Review Sheets.

PROJECTS

Semi-Supervised Machine Learning

Fall 2021

- Currently working on research in graph-based Semi-Supervised Machine Learning project under Dr. Nina Balcan.
- Working with a PHD student to improve overall algorithm bounds for finding optimal parameters.

MIT BattleCode

January 2021

- Worked on team of 4, coding an AI bot in java to compete in a tournament run every year by MIT.
- Leveraged distributed communication algorithms and pathfinding to increase bot's effectiveness.
- Placed 9th out of over 250 teams internationally, 1st out of all first-time teams.

Walksafe | CMU TartanHacks

February 2020

- Developed a Python program on team of 4 that calculates safe and efficient walking paths at night in New York City.
- Created a weighted graph from crime and street data and implemented an A* algorithm to generate optimal paths.
- Integrated Open Street Map API and fetched data from NYPD crime database REST endpoint.

SKILLS

Programming: Python | Java | C | SQL | Julia | JavaScript | HTML | Latex

Tools/Frameworks: Sklearn | Keras | NumPy/Pytorch | Jupyter Notebook | Pandas | Git | Unix Command Line

Coursework: 15-485 Intro to Deep Learning | 15-281 Artificial Intelligence | 10-315 Machine Learning | 15-210 Parallel Algorithms | 15-213 Computer Systems | 15-251 Great Theoretical Ideas in Computer Science | 15-122 Principles of Imperative Computation | 21-325 Probability Theory | 21-260 Differential Equations | 21-484 Graph Theory.

INVOLVEMENT

Origami Club, Club Basketball, Kappa Sigma Fraternity, chess player.